

CLAIMS:

What is claimed is:

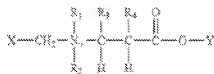
1-3. (canceled)

4. (previously presented) The method of claim 7, wherein the aqueous mixture includes a solvent selected from the group consisting of alcohols, glycols, glycol ethers and mixtures thereof.

5-6. (canceled)

7. (currently amended) A method of treating a gas well comprising:

introducing into said well an aqueous mixture during gas production from the well to reduce ~~the effects of~~ liquid loading, the aqueous mixture comprising an amphoteric surfactant in an effective amount to create a stable foam within the well, the amphoteric surfactant having the general formula:



wherein X is a hydrocarbyl group containing from 2 to 36 carbon atoms, ~~which can be optionally substituted with functional groups~~, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, and R<sub>4</sub> are independently hydrogen or a hydrocarbyl group containing from 1 to 4 carbon atoms, and Y is hydrogen, a negative charge, or a hydrocarbyl group containing from 1 to 4 carbon atoms, wherein any of ~~R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> and Y~~ the hydrocarbyl groups can be optionally substituted with functional groups, and wherein the surfactant is essentially free of ~~any significant amount of~~ chloride containing compounds.

8. (previously presented) The method of claim 7 wherein the weight ratio of amphoteric surfactant to water in said aqueous mixture is from about 1:46 to about 1:10.

9. (previously presented) The method of claim 7, wherein the aqueous mixture is introduced through a capillary string.

10. (previously presented) The method of claim 9, wherein the aqueous mixture is non-corrosive to metallurgy used in the capillary string.

11. (canceled)

12. (previously presented) The method of claim 7, wherein the resulting stable foam is effective at increasing production of gas from the well.

13. (previously presented) The method of claim 7, wherein the resulting stable foam is effective at increasing production of gas and other hydrocarbon liquids from the well.

14. (previously presented) The method of claim 7, wherein X is a hydrocarbyl group substituted with a functional group selected from an amido group, amino group, ester group, and combinations thereof.

15. (previously presented) The method of claim 7, wherein the amphoteric surfactant is introduced to the well to establish about 1,000 parts per million by volume of surfactant.

16. (previously presented) The method of claim 7, wherein the weight ratio of amphoteric surfactant to water in said aqueous mixture is from about 1:46 to about 1:7.

17. (new) The method of claim 7, wherein the functional groups are selected from the group consisting of amido groups, amino groups, and ester groups.